

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : KRAINER et al.

Appl. No. : To be assigned Examiner: To be assigned

Filed : Art Unit: To be assigned

For : STABILIZATION SYSTEM FOR HALOGEN-CONTAINING
POLYMERS

Attorney Docket No.: 0192-PA

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Listed on the accompanying Form PTO-1449 are documents that may be considered material to the examination of this application and are submitted in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98. Copies of these documents are provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue.

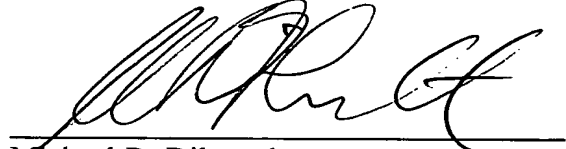
The applicants reserve the right to establish the patentability of the claimed invention over any of the information provided by this statement, to prove that the enclosed information is not prior art, and/or to prove that this information is not enabling for the teachings purportedly offered.

This statement should not be construed as a representation that an exhaustive search has been made or that there does not exist information more material to the examination of the present patent application. The Examiner is specifically requested not to rely solely on the material submitted with this statement.

The applicants request that the examiner initial and return a copy of the enclosed Form PTO-1449 and indicate in the official file history of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 23-2656.

April 5, 2003
Date



Michael P. Dilworth
Registration No. 37,311

Crompton Corporation
Benson Road
Middlebury, Connecticut 06749

(203) 573-2000

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0192-PA		APPLICATION NO. To be assigned	
				APPLICANTS KRAINER et al.			
				FILING DATE		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,000,100	Dec. 28, 1976	Baldyga	260	23	June 4, 1971
	AB1	4,040,996	Aug. 9, 1977	Van Vonno	260	23	Mar. 9, 1976
	AC1	5,240,623	Aug. 31, 1993	Fay et al.	252	35	Mar. 11, 1991
	AD1	5,519,077	May 21, 1996	Drewes et al.	524	114	Apr. 10, 1995
	AE1	5,543,449	Aug. 6, 1996	Drewes et al.	524	114	Apr. 10, 1995
	AF1	6,194,494	Feb. 27, 2001	Wehner et al.	524	100	Jun. 30, 1998
		6,348,517	Feb. 19, 2002	Wang et al.	522	187	Sep. 1, 2000
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		1211814		FR			
		54103461		JP			
		3545476		DE			
	AL1	246381		CS			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
			Shlensky, Behavior of the parameters of the thermal surface decomposition of polymers near the temperature boundary of thermodynamic stability, Mendeleev University of Chemical Tech., 47(3), pages 176-180, 2002 (abstract).				
			Kolesov et al., Stabilization of poly(vinylchloride) with binary mixtures of stabilizers, Kozhevenno-Obuvnaya Promyshlennost (7), pages 44-45, 1983 (abstract).				
			Lee et al., Thermal stabilization of PVC in on-toxic stabilizer systems, Pollimo 19(5), pages 543-50, 1995 (abstract).				
	AR	<u>1</u>	Kim et al., Thermal stabilization of PVC in non-toxic stabilizer systems, Pollimo 18(6), pages 1021-1029, 1994 (abstract).				
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0192-PA	APPLICATION NO. To be assigned
	APPLICANTS KRAINER et al.	
	FILING DATE	GROUP To be assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		50024388		JP			
		56055445		JP			
		50051147		JP			
	AL1	93/24563		WO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
			Handbook of PVC Formulating, E.J. Wickson, John Wiley & Sons, Inc., pages 393-429, (1993).
			Plastics Additives Handbook, R., Gachter, pages 390-422, (1990).
			Ullmann's Encyclopedia of Industrial Chemistry, 5 th Edition, Vol. A16, pages 361-374, (1985).
	AR	<u>1</u>	Taschenbuch der Kunststoffadditive, supra, Chapters 5.9.5, pages 431-447.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0192-PA		APPLICATION NO. To be assigned	
				APPLICANTS KRAINER et al.			
				FILING DATE		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		02/48249 A2		WO			
		93/02133		WO			
		2169298 A		UK			
	AL1	1151108		UK			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
			Plastic Additives, Gachter, 3 rd Edition, Chapters 5.9.6, pages 525-591, (1989).				
			PVC Technology, Titow, 4 th Edition, Elsevier Publ., pages 165-170, (1984).				
			Kunststoffhandbuch PVS, Vol. 2/2, Becker, 2 nd Edition, (1985), Carl Hanser Verlag., pages 1236-1277.				
	AR		Bacaloglu et al., J. Vinyl Additive Technol., 5:205-217, 1999.				
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 0192-PA		APPLICATION NO. To be assigned	
				APPLICANTS KRAINER et al.			
				FILING DATE		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		0394547 A2		EP			
		0457471 A2		EP			
		94/24200		WO			
	AL1	3843581 A1		DE			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR						
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0192-PA	APPLICATION NO. To be assigned
	APPLICANTS KRAINER et al.	
	FILING DATE	GROUP To be assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		0062813 A1		EP			
		93/20135	1	WO			
		0259783 A2		EP			
	AL1	19741773 A1		DE			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0192-PA		APPLICATION NO. To be assigned	
				APPLICANTS KRAINER et al.			
				FILING DATE		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		4031818 A4		DE			
		0967245 A1		EP			
	AL1						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR						
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							